## **Online Appendix**

## **A: Additional Tables**

**Table S1:** Math in Early Adolescence Regressed on Maternal Experience (Years before first birth and years between first and given child) and other controls

		OLS		Fixed	Effects	With Mediators		'S
	Full	Cousin	Sibling	Cousin FE	Sibling FE	OLS	Cousin FE	Sibling FE
	Sample	Sample	Sample		_			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Years between age 16 and first child	.039***	.029**	.043***	.028*		.029***	.021	
_	(.006)	(.010)	(.006)	(.012)		(.006)	(.013)	
Years between first and given child	.032***	$.029^{*}$	.033***	$.034^{*}$	$.018^{*}$	.028***	$.027^{+}$	$.017^{+}$
-	(.006)	(.012)	(.007)	(.014)	(.009)	(.006)	(.014)	(.009)
Number of siblings before birth	078***	059	077***	083	.010	047*	095+	.061
	(.020)	(.036)	(.020)	(.052)	(.032)	(.021)	(.056)	(.075)
Covariates								
Black	230***	255***	210***			160***		
	(.038)	(.070)	(.040)			(.043)		
Hispanic	126**	114	102 <sup>*</sup>	200***		092 <sup>*</sup>	034	
1	(.042)	(.075)	(.044)	(.056)		(.042)	(.125)	
Female	098***	082 <sup>*</sup>	092***	119 <sup>**</sup>	119***	101***	103*	107***
	(.024)	(.041)	(.024)	(.043)	(.029)	(.024)	(.045)	(.029)
Firstborn	.002	.029	.022	.009	$.069^{+}$	.035	.042	.041
	(.033)	(.058)	(.034)	(.064)	(.037)	(.036)	(.065)	(.040)
AFQT Score	.014***	.014***	.014***	.009***	,	.010***	.007**	, ,
	(.001)	(.001)	(.001)	(.002)		(.001)	(.003)	
Mom Ever Fight	101 <sup>**</sup>	102	103 <sup>*</sup>	044		083*	059	
	(.039)	(.069)	(.040)	(.107)		(.038)	(.105)	
Mom Ever Steal	.018	.076	.028	` ,		.028	.041	
	(.033)	(.058)	(.034)			(.032)	(.081)	
Mother US Born	116 <sup>+</sup>	206 <sup>+</sup>	119 <sup>+</sup>			148*	254	
	(.066)	(.125)	(.068)			(.067)	(.199)	
Mediators								
Mother's education at birth						.040***	.042*	.015
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2						(.009)	(.021)	(.016)
HOME score at age 2/3						.102***	.046	.041*
						(.016)	(.032)	(.021)

Birth weight						.053***	$.069^{*}$	.082***
						(.014)	(.029)	(.023)
Prenatal cigarette use per day						.021	$.080^{+}$	.013
						(.017)	(.047)	(.032)
Prenatal alcohol use per month						$.025^{+}$	.028	.019
						(.014)	(.031)	(.022)
Fraction of years between birth and						158***	156	170
age 13 single parent household						(.046)	(.124)	(.139)
Number of siblings between birth						033*	078*	.037
and age 13						(.016)	(.035)	(.071)
Adjusted total family income						.004	.010	001
at age 2/3						(.011)	(.020)	(.013)
Fraction of 5 years before birth						.031	001	$.158^{*}$
single parent household						(.046)	(.096)	(.074)
Constant	566***	405*	606***	302	$.074^{*}$	851***	441	239
	(.108)	(.191)	(.112)	(.218)	(.037)	(.138)	(.384)	(.255)
Observations	5380	1762	4967	1762	4967	5380	1762	4967

Note. Standard errors in parentheses. Age 10 to 13 math scores are standardized values for children with valid values in at least one year. p < .10, p < .05, p < .05, p < .01, p

Control variables include: black, Hispanic, female, firstborn, Mother's AFQT score, mother ever fight, mother ever stole, mother US born, first born, Mom's birth year, Child's birth decade (born 1980s, 1990s, 2000s)

**Table S2:** Reading in Early Adolescence Regressed on Maternal Experience (Years before first birth and years between first and given child) and other controls

	OLS Fix			Fixed	Fixed Effects		With Mediators		
	Full	Cousin	Sibling	Cousin FE	Sibling FE	OLS	Cousin FE	Sibling FE	
	Sample	Sample	Sample						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Years between age 16 and first child	.028***	$.025^{*}$	.033***	.017		.020***	.011		
	(.006)	(.010)	(.006)	(.013)		(.006)	(.013)		
Years between first and given child	.036***	.038**	.039***	.042**	.035***	.033***	.035**	.033***	
	(.007)	(.012)	(.007)	(.013)	(.009)	(.007)	(.013)	(.009)	
Number of siblings before birth	124***	136***	123***	146**	105***	096***	165 <sup>**</sup>	025	
	(.020)	(.037)	(.020)	(.052)	(.031)	(.020)	(.058)	(.070)	
Covariates									
Black	109**	080	102*			051			
	(.042)	(.077)	(.044)			(.047)			
Hispanic	.064	.129	.080+	-1.057***		.077+	981***		
-	(.045)	(.084)	(.047)	(.056)		(.045)	(.130)		
Female	.139***	.134**	.139***	$.090^{+}$	.134***	.130***	.102*	.142***	
	(.024)	(.042)	(.025)	(.046)	(.028)	(.024)	(.047)	(.029)	
Firstborn	.085*	.081	.080*	.079	.094**	.110**	.107+	.084*	
	(.033)	(.057)	(.034)	(.062)	(.036)	(.035)	(.063)	(.038)	
AFQT Score	.013***	.013***	.014***	$.005^{*}$		.011***	$.005^{*}$		
	(.001)	(.001)	(.001)	(.002)		(.001)	(.002)		
Mom Ever Fight	022	055	013	100		003	114		
_	(.043)	(.078)	(.044)	(.113)		(.042)	(.111)		
Mom Ever Steal	.019	.068	.023			.037	.053		
	(.034)	(.062)	(.035)			(.033)	(.095)		
Mother US Born	085	$185^{+}$	095			102	.057		
	(.070)	(.107)	(.073)			(.072)	(.279)		
Mediators									
Mother's education at birth						.030**	.016	.004	
						(.009)	(.019)	(.014)	
HOME score at age 2/3						.107***	$.060^{+}$	.046*	
<i>5</i>						(.017)	(.033)	(.022)	
Birth weight						.040**	.055+	.056*	
						(.014)	(.029)	(.022)	

Prenatal cigarette use per day						017	$.082^{+}$	.016
						(.018)	(.044)	(.029)
Prenatal alcohol use per month						003	002	009
						(.014)	(.031)	(.020)
Fraction of years between birth and						168***	218+	138
age 13 single parent household						(.051)	(.129)	(.137)
Number of siblings between birth						031*	093*	.073
and age 13						(.016)	(.038)	(.067)
Adjusted total family income						.005	000	013
at age 2/3						(.011)	(.024)	(.014)
Fraction of 5 years before birth						.059	.049	.044
single parent household						(.048)	(.102)	(.074)
Constant	743***	668**	797***	.028	060+	936***	073	241
	(.118)	(.211)	(.123)	(.241)	(.036)	(.148)	(.431)	(.233)
Observations	5376	1762	4963	1762	4963	5376	1762	4963

Note. Standard errors in parentheses. Age 10 to 13 reading scores are standardized values for children with valid values in at least one year.

+ p < .10, \* p < .05, \*\* p < .01, \*\*\* p < .001

Control variables include: black, Hispanic, female, firstborn, Mother's AFQT score, mother ever fight, mother ever stole, mother US born, first born, Mom's birth year, Child's birth decade (born 1980s, 1990s, 2000s)

**Table S3:** Externalizing in Early Adolescence Regressed on Maternal Experience (Years before first birth and years between first and given child) and other controls

		OLS		Fixed	Effects	With Mediators		
	Full	Cousin	Sibling	Cousin FE	Sibling FE	OLS	Cousin FE	Sibling FE
	Sample	Sample	Sample					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Years between age 16 and first child	029***	028**	034***	021+		019**	020	
	(.006)	(.009)	(.006)	(.012)		(.006)	(.012)	
Years between first and given child	016*	027*	017*	008	024*	017*	005	025*
	(.007)	(.013)	(.007)	(.013)	(.010)	(.007)	(.013)	(.010)
Number of siblings before birth	005	.038	006	058	000	032	081+	.060
-	(.022)	(.038)	(.022)	(.040)	(.030)	(.022)	(.044)	(.063)
Covariates								
Black	022	055	019			111*		
	(.046)	(.084)	(.049)			(.048)		
Hispanic	073	086	071	.321		055	.228	
•	(.047)	(.085)	(.050)	(.326)		(.045)	(.334)	
Female	244***	251***	260***	233***	204***	222***	220***	204***
	(.025)	(.042)	(.027)	(.040)	(.028)	(.025)	(.040)	(.028)
Firstborn	00 <del>7</del>	.044	035	.002	060 <sup>+</sup>	029	015	067 <sup>+</sup>
	(.037)	(.063)	(.037)	(.058)	(.036)	(.038)	(.061)	(.039)
AFQT Score	003***	004**	002**	005**		.001	004*	
_	(.001)	(.001)	(.001)	(.002)		(.001)	(.002)	
Mom Ever Fight	.067	.085	.050	093		.029	116	
_	(.046)	(.074)	(.048)	(.099)		(.043)	(.095)	
Mom Ever Steal	$.070^{+}$	.056	.073+			.029	.095	
	(.039)	(.057)	(.042)			(.038)	(.072)	
Mother US Born	.037	.141	.052			.025	233	
	(.072)	(.116)	(.075)			(.069)	(.239)	
Mediators								
Mother's education at birth						023*	.000	014
						(.010)	(.019)	(.014)
HOME score at age 2/3						154***	089 <sup>**</sup>	024
<b>5</b>						(.017)	(.031)	(.021)
Birth weight						009	000	018
						(.015)	(.026)	(.021)

Prenatal cigarette use per day						.104***	.055	.022
Prenatal alcohol use per month						(.020) .013	(.047) .019	(.034) 016
Erection of years between hirth and						(.014) .236***	(.026) .122	(.021) .041
Fraction of years between birth and						(.052)	(.111)	(.126)
age 13 single parent household						` ′	` ′	· · · · ·
Number of siblings between birth						024	032	.065
and age 13						(.017)	(.033)	(.060)
Adjusted total family income						024**	022	003
at age 2/3						(800.)	(.014)	(.011)
Fraction of 5 years before birth						.024	.155+	.020
single parent household						(.047)	(.084)	(.079)
Constant	.457***	.179	.475***	.344	.174***	.545***	.400	.213
	(.122)	(.197)	(.128)	(.215)	(.035)	(.149)	(.357)	(.225)
Observations	5673	1830	5215	1830	5215	5673	1830	5215

Note. Standard errors in parentheses. Age 10 to 13 externalizing scores are standardized values for children with valid values in at least one year. p < .10, p < .05, p < .01, p < .05, p < .01, p < .001Control variables include: black, Hispanic, female, firstborn, Mother's AFQT score, mother ever fight, mother ever stole, mother US born, first born, Mom's birth year, Child's birth decade (born 1980s, 1990s, 2000s)

Table S4: Fraction of years between birth and age 13 single parent household regressed on maternal experience (Years before first birth and years between first and given child) and controls

		OLS		I IACU	Effects
	Full	Cousin	Sibling	Cousin	Sibling
	Sample	Sample	Sample	FE	FE
	(1)	(2)	(3)	(4)	(5)
Years between age 16 and first	008***	010**	011***	.001	.001
child	(.002)	(.003)	(.002)	(.003)	(.027)
Years between first and given	.002	.001	.002	006	005*
child	(.002)	(.004)	(.002)	(.003)	(.002)
Number of siblings before birth	.008	.013	.007	$.027^{*}$	.023***
	(.009)	(.015)	(.009)	(.012)	(.006)
Mediator	` ,	` '	, ,	, ,	` ,
Mother's Education at birth	023***	027***	020***	014*	003
	(.003)	(.006)	(.003)	(.006)	(.002)
Covariates					
Black	.301***	.305***	.290***	.185***	
	(.019)	(.036)	(.020)	(.055)	
Hispanic	$.047^{*}$	$.065^{+}$	$.035^{+}$	184	
	(.019)	(.038)	(.019)	(.233)	
Female	004	020	006	005	$.010^{**}$
	(.008)	(.014)	(.008)	(.011)	(.004)
Firstborn	.071***	.074***	.026*	.030*	.008
	(.011)	(.020)	(.010)	(.013)	(.006)
AFQT Score	002***	002***	002***	002**	
N. D. E. I.	(.000)	(.001)	(.000)	(.001)	
Mom Ever Fight	.043*	.043	.038*	030	
M E C41	(.018)	(.030)	(.019)	(.036)	
Mom Ever Steal	.030*	.025	.028+	.057+	
Mother US Born	(.014) .098***	(.023) .105+	(.014) .092***	(.029) 098	
Wother OS Born	(.027)	(.058)	(.028)	(.094)	
Constant	.561***	.643***	.559***	.705***	.321
Constant	(.050)	(.103)	(.052)	(.135)	(.207)
Observations	7720	2433	6958	2433	6958

Note. Standard errors in parentheses p < .10, p < .05, p < .05, p < .01, p < .001 Dependent variable is standardized. Control variables include: Mom's birth year, Child's birth decade (born 1980s, 1990s, 2000s)

Table S5: Number of siblings between birth and age 13 regressed on maternal experience (Years before first birth and years between first and given child) and

controls

controls		OLS		Fixed	Effects
	Full	Cousin	Sibling	Cousin	Sibling
	Sample	Sample	Sample	FE	FE
	(1)	(2)	(3)	(4)	(5)
Years between age 16 and first	052***	061***	044***	083***	
child	(.004)	(800.)	(.004)	(.010)	
Years between first and given	058***	068***	056***	046***	.033***
child	(.005)	(.008)	(.005)	(.012)	(.005)
Number of siblings before birth	.073**	.118**	.073**	346***	-1.000***
rumber of slomings before birth	(.025)	(.045)	(.024)	(.050)	(.027)
Mediator	(.023)	(.012)	(.021)	(.050)	(.027)
Mother's Education at birth	.007	.004	000	.002	000
Mother & Baucation at onth	(.008)	(.016)	(.008)	(.014)	(.004)
Covariates	(.000)	(1010)	(1000)	(1011)	(1001)
Black	.141**	.096	.161***	168	
2.00.1	(.044)	(.090)	(.047)	(.170)	
Hispanic	.189***	.148+	.170***	.518+	
1	(.041)	(.086)	(.043)	(.281)	
Female	011	036	015	005	008
	(.019)	(.038)	(.019)	(.035)	(800.)
Firstborn	.452***	.548***	.833***	.313***	.087***
	(.027)	(.053)	(.025)	(.038)	(.019)
AFQT Score	.002**	.003*	$.002^{*}$	.002	
	(.001)	(.002)	(.001)	(.002)	
Mom Ever Fight	.044	.041	.054	.002	
	(.045)	(.089)	(.047)	(.107)	
Mom Ever Steal	031	034	042	.038	
	(.033)	(.054)	(.035)	(.086)	
Mother US Born	106*	032	088	326	
	(.052)	(.092)	(.054)	(.340)	2.225
Constant	.929***	.953***	.957***	1.830***	3.235
Observations	(.109)	(.206)	(.112)	(.441)	(3.107)
Observations	7740	2437	6978	2437	6978

Note. Standard errors in parentheses p < .10, p < .05, p < .01, p < .01, p < .01, p < .001Dependent variable is standardized. Control variables include: Mom's birth year, Child's birth decade (born 1980s, 1990s, 2000s)

Table S6: Birth Weight regressed on maternal experience (Years before first birth and years between first and given child) and controls

	OLS			Fixed Effects		
	Full	Cousin	Sibling	Cousin	Sibling	
	Sample	Sample	Sample	FE	FE	
	(1)	(2)	(3)	(4)	(5)	
Years between age 16 and first	008	007	009	012		
child	(.006)	(.011)	(.007)	(.013)		
Years between first and given	009	000	010	004	009	
child	(.007)	(.013)	(.007)	(.015)	(.009)	
Number of siblings before birth	$.050^{*}$	.037	.051*	.038	.057	
- · · · · · · · · · · · · · · · · · · ·	(.024)	(.050)	(.024)	(.053)	(.035)	
Mediator	(*** )	(1111)	( - )	( )	( /	
Mother's Education at birth	.019*	.013	.020*	.010	002	
	(.009)	(.017)	(.010)	(.020)	(.015)	
Covariates	` ,	` '	` /	` /	` ,	
Black	320***	303***	330***	-1.243***		
	(.043)	(.081)	(.046)	(.182)		
Hispanic	.010	034	.026	.228		
_	(.041)	(.070)	(.043)	(.515)		
Female	190***	162***	187***	183***	172**	
	(.024)	(.043)	(.026)	(.045)	(.028)	
Firstborn	094*	061	074*	082	089*	
	(.036)	(.064)	(.037)	(.064)	(.039)	
AFQT Score	.003***	.004**	.003**	001		
	(.001)	(.001)	(.001)	(.002)		
Mom Ever Fight	056	068	058	.057		
	(.042)	(.074)	(.045)	(.113)		
Mom Ever Steal	022	.033	005	066		
	(.034)	(.058)	(.036)	(.094)		
Mother US Born	166**	002	172**	304		
	(.055)	(.097)	(.059)	(.374)	450	
Constant	.122	118	.092	.801+	.170	
01	(.132)	(.258)	(.140)	(.481)	(.195)	
Observations	6684	2103	5988	2103	5988	

Table S7: Prenatal cigarette use regressed on maternal experience (Years before first birth and years between first and given child) and controls

		OLS		Fixed	Effects
	Full	Cousin	Sibling	Cousin	Sibling
_	Sample	Sample	Sample	FE	FE
	(1)	(2)	(3)	(4)	(5)
Years between age 16 and first	019***	010	025***	019*	
child	(.005)	(.008)	(.005)	(800.)	
Years between first and given	$.012^{+}$	.015	.010	011	010
child	(.007)	(.011)	(.007)	(.011)	(.007)
Number of siblings before birth	030	.010	032	.014	012
G	(.024)	(.048)	(.024)	(.042)	(.024)
Mediator					
Mother's Education at birth	070***	064***	068***	027+	015
	(.009)	(.016)	(.010)	(.014)	(.010)
Covariates					
Black	323***	385***	321***	.152	
	(.046)	(.090)	(.050)	(.147)	
Hispanic	518***	618***	534***	165	
	(.042)	(.080)	(.045)	(.531)	
Female	038+	039	022	078*	033+
	(.022)	(.039)	(.024)	(.034)	(.019)
Firstborn	.025	.064	009	.007	060 <sup>*</sup>
	(.034)	(.064)	(.033)	(.046)	(.025)
AFQT Score	003***	006***	003**	004+	
	(.001)	(.001)	(.001)	(.002)	
Mom Ever Fight	.125**	.117	.122*	.052	
14 F G 1	(.046)	(.082)	(.049)	(.098)	
Mom Ever Steal	.168***	.135*	.175***	.072	
Mada a UC Dana	(.037) .192***	(.058)	(.040)	(.075)	
Mother US Born		.187*	.168**	.110	
Constant	(.058) 1.152***	(.087) 1.192***	(.063) 1.191***	(.187) .616*	.226
Constant	(.132)	(.254)	(.141)	(.293)	(.138)
Observations	6819	2148	6120	2148	6120
Note: Standard among in nonenthana	0017	<b>∠1</b> ⊤0	0120	2170	0120

Note. Standard errors in parentheses p = 100 Note. Standard errors in

Table S8: Prenatal alcohol use regressed on maternal experience (Years before first birth and years between first and given child) and controls

		OLS		Fixed 1	Effects
	Full	Cousin	Sibling	Cousin	Sibling
	Sample	Sample	Sample	FE	FE
	(1)	(2)	(3)	(4)	(5)
Years between age 16 and first	$010^{+}$	011	$010^{+}$	023+	
child	(.006)	(.010)	(.006)	(.012)	
Years between first and given	.004	007	.004	$020^{+}$	019*
child	(.006)	(.011)	(.006)	(.011)	(.009)
Number of siblings before birth	079***	044	078***	038	008
2 : 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(.021)	(.037)	(.021)	(.038)	(.030)
Mediator	` /	` '	` /	` ,	( -/
Mother's Education at birth	027**	037*	026**	043*	011
	(.009)	(.015)	(.009)	(.019)	(.013)
Covariates	, ,	` ,		, ,	, ,
Black	078+	196*	064	.109	
	(.042)	(.077)	(.045)	(.184)	
Hispanic	105*	190 <sup>*</sup>	107*	818	
	(.043)	(080.)	(.046)	(.542)	
Female	022	009	027	007	.001
	(.024)	(.041)	(.025)	(.043)	(.028)
Firstborn	.050	.072	.055	.064	.024
	(.034)	(.060)	(.034)	(.056)	(.034)
AFQT Score	.009***	.008***	.009***	.002	
M E E 14	(.001)	(.001)	(.001)	(.003)	
Mom Ever Fight	048	024	047	086	
Mom Ever Steal	(.040) .208***	(.068) .183**	(.042) .212***	(.095) .032	
Wolli Ever Stear	(.035)	(.059)	(.037)	(.084)	
Mother US Born	.261***	.195+	.268***	190	
Wother CS Born	(.052)	(.105)	(.055)	(.354)	
Constant	003	.331	019	1.386**	.267
	(.127)	(.241)	(.135)	(.436)	(.170)
Observations	6836	2153	6136	2153	6136

Note. Standard errors in parentheses p = 10, p = 10,

Table S9: HOME score at age 2/3 regressed on maternal experience (Years before first birth and years between first and given child) and controls

		OLS		Fixed	Effects
	Full	Cousin	Sibling	Cousin	Sibling
_	Sample	Sample	Sample	FE	FE
	(1)	(2)	(3)	(4)	(5)
Years between age 16 and first	000	007	001	009	
child	(.006)	(.010)	(.006)	(.012)	
Years between first and given	.004	.006	.001	.023	.002
child	(.007)	(.013)	(.007)	(.015)	(.011)
Number of siblings before birth	135***	141**	133***	172**	086*
- · · · · · · · · · · · · · · · · · · ·	(.024)	(.047)	(.024)	(.055)	(.034)
Mediator	` /	` /	` '	` /	` ,
Mother's Education at birth	.045***	.050**	.048***	.038*	.022
	(.009)	(.017)	(.009)	(.019)	(.014)
Covariates					
Black	566***	549***	574***	.601***	
	(.042)	(.075)	(.045)	(.153)	
Hispanic	160***	260**	149**	052	
	(.044)	(.090)	(.046)	(.147)	
Female	.095***	.142***	.091***	$.091^{*}$	.098***
	(.022)	(.039)	(.024)	(.043)	(.029)
Firstborn	$.075^{*}$	.102	.075*	.099	.096**
	(.034)	(.064)	(.035)	(.064)	(.036)
AFQT Score	.005***	.007***	.006***	.006**	
M. E. E. L.	(.001)	(.001)	(.001)	(.002)	
Mom Ever Fight	021	.036	.004	.086	
M E C 1	(.042)	(.073)	(.044)	(.099)	
Mom Ever Steal	033	068	044	193*	
Mother US Born	(.034) .020	(.060) 201 <sup>+</sup>	(.036) .014	(.086) .007	
Momer OS Born	(.063)	(.111)	.014 (.066)	(.374)	
Constant	481***	(.111) 456 <sup>+</sup>	503***	(.374) 906*	285
Constant	(.135)	(.246)	(.141)	(.444)	(.180)
Observations	5984	1925	5492	1925	5492
Note Standard errors in parentheses	J70 <del>4</del>	1743	3434	1743	3474

Note. Standard errors in parentheses p < .10, p < .05, p < .05, p < .01, p < .05, p < .01, p < .2000s)

**Table S10:** Adjusted total net family income at age 2/3 regressed on maternal experience (Years before first birth and years between first and given child) and

controls

controls		OLS		Fixed I	Effects
	Full	Cousin	Sibling	Cousin	Sibling
	Sample	Sample	Sample	FE	FE
	(1)	(2)	(3)	(4)	(5)
Years between age 16 and first	.026***	.026*	.029***	.001	
child	(.006)	(.011)	(.006)	(.014)	
Years between first and given	.006	.009	.006	.013	.004
child	(.006)	(.010)	(.006)	(.009)	(800.)
Number of siblings before birth	.018	004	.019	023	007
8	(.014)	(.022)	(.014)	(.031)	(.026)
Mediator	, ,	` '	` ,	, ,	` ′
Mother's Education at birth	.079***	.086**	.076***	$.064^{*}$	.012
	(.014)	(.028)	(.014)	(.030)	(.018)
Covariates					
Black	123**	114	104*	1.533***	
	(.039)	(.071)	(.041)	(.175)	
Hispanic	015	010	.006	.536	
-	(.042)	(.082)	(.043)	(.360)	
Female	.022	019	.015	.032	.019
	(.025)	(.042)	(.026)	(.041)	(.037)
Firstborn	056	018	035	009	070
	(.039)	(.068)	(.042)	(.063)	(.045)
AFQT Score	.005***	.004*	.005***	.007**	
	(.001)	(.002)	(.001)	(.003)	
Mom Ever Fight	001	.002	.008	.094+	
74 7 6 1	(.032)	(.060)	(.033)	(.056)	
Mom Ever Steal	.006	069	003	241	
M-41IIC D	(.037)	(.053)	(.036)	(.155)	
Mother US Born	146 <sup>+</sup>	118 (110)	102 (.067)	.041	
Constant	(.077) -1.212***	(.110) -1.319**	(.067) -1.234***	(.196) -1.634***	075
Constant	(.188)	(.402)	(.202)	(.421)	(.234)
Observations	6544	2090	5960	2090	5960

Note. Standard errors in parentheses p < .10, p < .05, p < .05, p < .01, p < .05, p < .01, p < .05, p < .05, p < .05, p < .06, p < .07, p < .08, p < .08, p < .08, p < .08, p < .09, p < .

Table S11: Fraction of 5 years before birth single parent household regressed on maternal experience (Years before first birth and years between first and given child) and controls

		OLS		Fixed 1	Effects
	Full	Cousin	Sibling	Cousin	Sibling
_	Sample	Sample	Sample	FE	FE
	(1)	(2)	(3)	(4)	(5)
Years between age 16 and first	018***	021***	018***	014***	
child	(.002)	(.004)	(.002)	(.004)	
Years between first and given	003	$008^{+}$	003	010*	004
child	(.002)	(.004)	(.002)	(.004)	(.003)
Number of siblings before birth	028**	014	028**	033 <sup>+</sup>	053***
	(.010)	(.017)	(.010)	(.017)	(.010)
Mediator	, ,	` ′	` ,	` ′	` ′
Mother's Education at birth	011***	017**	011***	010	005
	(.003)	(.006)	(.003)	(.006)	(.003)
Covariates					
Black	.261***	.245***	.262***	.014	
	(.016)	(.031)	(.017)	(.061)	
Hispanic	.045**	.022	.035*	.150	
	(.016)	(.030)	(.017)	(.094)	
Female	.005	013	.003	005	.005
	(800.)	(.014)	(.008)	(.012)	(.007)
Firstborn	.245***	.253***	.242***	.214***	.208***
	(.012)	(.022)	(.012)	(.018)	(.010)
AFQT Score	002***	002***	002***	002*	
N. E. E. L.	(.000)	(.001)	(.000)	(.001)	
Mom Ever Fight	.035*	.032	.033*	.026	
Man Even Steel	(.016) .051***	(.026) .035+	(.017) .047***	(.037)	
Mom Ever Steal				.031	
Mother US Born	(.012) .058*	(.021) .074+	(.013) .055*	(.030) .149*	
Moder OS Born	(.023)	(.042)	(.024)	(.075)	
Constant	.675***	.819***	.680***	.644***	.763
Constant	(.049)	(.088)	(.051)	(.118)	(1.226)
Observations	7691	2423	6937	2423	6937

Note. Standard errors in parentheses p < .10, p < .05, p < .05, p < .01, p < .05, p < .01, p < .05, p < .05, p < .01, p < .05, p < .

**Table S12:** Mother's education at birth predicted by years between age 16 and first birth (2SLS Model)

Years between Age 16

.455

20.582

5135

Mother's Education at

.507

20.582

5135

and first birth Birth Second Stage First Stage Instrumental Variable -.706\*\*\* Prior Medicaid funding restrictions (.156)State Characteristics Income per capita -.237\*\*\* (.031)-.088\*\*\* **Unemployment Rate** (.023) $.001^{+}$ Average AFDC Benefit per Family (.001)Predicted Value for 2SLS Years between Age 16 and first birth  $0.235^*$ (0.096)11.209\*\*\* 7.510\*\*\* Constant (.392)(1.054)

Standard errors in parentheses

 $\mathbb{R}^2$ 

F-Statistic

Control variables include: years between first and given child, number of siblings before birth, black, Hispanic, female, firstborn, Mother's AFQT score, mother ever fight, mother ever stole, mother US born, first born

 $<sup>^{+}</sup>$  p < 0.10,  $^{*}$  p < 0.05,  $^{**}$  p < 0.01,  $^{***}$  p < 0.001

## **B:** Approaches to addressing general experience endogeneity

Given the possible endogeneity in the relationship between general life experience and our outcomes, we attempted an instrumental variables approach to understand the causal impact of an additional year of general life experience. We attempted an instrumental variable approach using both age of menarche and miscarriages before the first birth as instruments for years between age 16 and first child following prior literature (e.g. Miller, 2011; Hotz et al., 2005). We found age of menarche to produce a very weak first stage, which resulted in a poor instrument for the purposes of this analysis. In regards to miscarriages, we found miscarriages to produce a strong first stage equation but the small number of miscarriages before the first birth in our sample resulted in standard errors that were too large to detect significance given the size of the coefficients in our OLS results (Tables 3-5).

We also attempted using the timing of changes in abortion laws across states from 1970 to 1998 as instruments. Specifically, Medicaid funding restrictions, and parental notification or consent laws from Bitler and Zavodny (2001) were used in our analysis. The timing of those changes fit particularly well with the year of birth of the first born children in our sample.

Given the age of mothers for these law changes, they could have an effect on teen pregnancy. As such, we took advantage of these law changes to see if they could be an instrument to look at the causal impact of a teen birth on our outcomes of interest. Similarly, we find that using these laws resulted in standard errors that were too large to detect significance given the effect sizes in our regressions. So our estimates of the effects were neither significantly different from zero nor significantly different from our main OLS results.

## C: Non-linearities and Heterogeneity

**Table S13 Non-linear Relations** 

Panel A: Math in Early Adolescence Regressed on Maternal Experience and other controls

		OLS		Fixed 1	Effects		With Mediato	rs
	Full	Cousin	Sibling	Cousin FE	Sibling FE	OLS	Cousin FE	Sibling Fl
	Sample	Sample	Sample					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Years between age 16 and first child								
(2-year categories – Baseline 0-2)								
2-4 Years	.087	055	.087	.019		.044	022	
	(.056)	(.108)	(.056)	(.170)		(.055)	(.170)	
4-6 Years	.143*	062	.133*	.034		.080	014	
	(.060)	(.115)	(.061)	(.163)		(.060)	(.166)	
6-8 Years	.176**	.110	$.154^{*}$	.123		.091	.049	
	(.065)	(.119)	(.066)	(.165)		(.066)	(.164)	
8-10 Years	.236***	024	.220**	033		.131+	113	
	(.068)	(.124)	(.069)	(.168)		(.069)	(.167)	
10-12 Years	.312***	.085	.318***	.091		.182*	022	
	(.074)	(.134)	(.076)	(.177)		(.076)	(.184)	
12-14 Years	.396***	.190	.372***	.331		.257**	.231	
	(.083)	(.146)	(.086)	(.210)		(.086)	(.211)	
14-16 Years	.351***	.086	.386***	.077		$.220^{*}$	.033	
	(.094)	(.172)	(.101)	(.230)		(.098)	(.234)	
16+ Years	.501***	.272	.511***	.288		.363***	.157	
	(.098)	(.182)	(.102)	(.239)		(.101)	(.243)	
Years between first and given child	,	,	,	,		,	,	
(2-year categories – Baseline 0-2)								
2-4 Years	.024	003	.026	002	056	.018	020	034
2 1 10415	(.048)	(.086)	(.048)	(.088)	(.055)	(.048)	(.087)	(.056)
4-6 Years	.021	.045	.021	.017	030	.005	019	.004
1 o Tears	(.054)	(.092)	(.054)	(.095)	(.063)	(.054)	(.097)	(.065)
6-8 Years	.056	040	.055	.054	016	.041	.010	.011
0-0 Tears	(.065)	(.118)	(.065)	(.119)	(.073)	(.065)	(.119)	(.076)

8+ Years	.176* (.071)	.081	.168* (.071)	.186 (.135)	.089 (.089)	.140* (.070)	.128 (.134)	.107 (.089)
N 1 6 71 1 6 11 1	` '	(.127)	, ,			` ,		
Number of siblings before birth	062**	034	063**	056	.029	033	078	.086
	(.020)	(.034)	(.020)	(.047)	(.028)	(.021)	(.052)	(.071)
Mediators  Mother's education at birth						.038***	.041+	.013
						(.009)	(.022)	(.016)
HOME score at age 2/3						.105***	.048	$.042^{+}$
						(.016)	(.031)	(.022)
Birth weight						.052***	.076**	.079***
						(.014)	(.029)	(.022)
Prenatal cigarette use per day						.025	$.084^{+}$	.016
						(.017)	(.050)	(.031)
Prenatal alcohol use per month						.025+	.029	.019
						(.014)	(.031)	(.021)
Fraction of years between birth and						159***	128	181
age 12 biological father in household						(.047)	(.127)	(.139)
Number of siblings between birth and						039*	086*	.048
age 13						(.015)	(.034)	(.071)
Adjusted total family income at age						.004	.009	000
2/3						(.011)	(.021)	(.013)
Fraction of 5 years before birth of						.026	029	$.145^{+}$
single parent household						(.046)	(.100)	(.076)
Constant	391***	131	381***	.058	.142**	643***	215	165
	(.113)	(.203)	(.115)	(.301)	(.049)	(.146)	(.402)	(.251)
Observations	5380	1762	4967	1762	4967	5380	1762	4967
Additional Tests								_
Years between age 16 and first child								
Joint Differences (p-value)	.000	.205	.000	.392		.027	.526	
Joint Differences from 0	.000	.251	.000	.497		.040	.616	
(p-value)								
Years between first and given child								
Joint Differences (p-value)	.031	.626	.052	.417	.278	.084	.572	.330
Joint Differences from 0 (p-value)	.059	.776	.093	.583	.308	.152	.725	.458

Panel B: Reading in Early Adolescence Regressed on Maternal Experience and other controls

		OLS		Fixed 1	Effects		With Mediator	îs.
	Full	Cousin	Sibling	Cousin FE	Sibling FE	OLS	Cousin FE	Sibling F
	Sample	Sample	Sample					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Years between age 16 and first								
child (2-year categories – Baseline								
0-2 Years)								
2-4 Years	.096	024	.094	.024		.049	011	
	(.065)	(.118)	(.066)	(.186)		(.064)	(.185)	
4-6 Years	$.154^{*}$	026	$.156^{*}$	.035		.088	.007	
	(.066)	(.114)	(.067)	(.186)		(.065)	(.188)	
6-8 Years	$.202^{**}$	.121	.185**	.121		$.115^{+}$	.060	
	(.070)	(.127)	(.071)	(.190)		(.070)	(.190)	
8-10 Years	.251***	.025	.260***	.012		$.144^{+}$	033	
	(.075)	(.128)	(.077)	(.184)		(.075)	(.189)	
10-12 Years	.286***	.146	.309***	.115		.157+	.044	
	(.079)	(.135)	(.081)	(.201)		(.080)	(.208)	
12-14 Years	.310***	.242	.317***	.187		$.177^{+}$	.124	
	(.088)	(.148)	(.092)	(.219)		(.090)	(.223)	
14-16 Years	.253*	.084	.294**	004		.119	012	
	(.099)	(.180)	(.104)	(.246)		(.100)	(.254)	
16+ Years	.365***	.171	.376***	.058		$.228^{*}$	039	
	(.100)	(.180)	(.104)	(.248)		(.103)	(.256)	
Years between first and given child								
(2-year categories – Baseline 0-2 Years)								
2-4 Years	.038	.069	.040	.084	.047	.037	.080	.051
	(.050)	(.085)	(.050)	(.083)	(.054)	(.050)	(.083)	(.055)
4-6 Years	.089	.127	.094	.157	.103 <sup>+</sup>	.078	.145	.115+
	(.057)	(.103)	(.057)	(.100)	(.061)	(.058)	(.101)	(.064)
6-8 Years	003	076	.005	.039	018	010	.020	011
	(.066)	(.119)	(.067)	(.123)	(.075)	(.067)	(.123)	(.077)
8+ Years	.286***	.279*	.300***	.334*	.261**	.263***	.300*	.255**
	(.073)	(.132)	(.074)	(.141)	(.092)	(.073)	(.142)	(.093)
Number of siblings before birth	107***	112**	107***	118*	070*	080***	145*	.018

16.19	(.019)	(.035)	(.019)	(.050)	(.028)	(.020)	(.057)	(.067)
Mediators  Mother's education at birth						.031**	.023	.007
110115						(.010)	(.020)	(.015)
HOME score at age 2/3						.106***	.061+	.047*
Birth weight						(.017) .037*	(.034) .057*	(.021) .054*
Bittii weight						(.014)	(.029)	(.021)
Prenatal cigarette use per day						013	.029)	.013
Trenatar ergarette use per day						(.018)	(.044)	(.030)
Prenatal alcohol use per month						002	.002	008
Tremutar areoner use per monen						(.014)	(.031)	(.021)
Fraction of years between birth and						166**	214	167
age 12 biological father in						(.051)	(.131)	(.138)
household								
Number of siblings between birth						036 <sup>*</sup>	099**	.086
and age 13						(.015)	(.037)	(.068)
Adjusted total family income at						.006	002	014
age 2/3						(.011)	(.023)	(.014)
Fraction of 5 years before birth of						.054	.053	.040
single parent household						(.049)	(.105)	(.077)
Constant	654***	496*	659***	101	030	834***	140	274
	(.126)	(.226)	(.130)	(.384)	(.048)	(.157)	(.445)	(.250)
Observations	5376	1762	4963	1762	4963	5376	1762	4963
Additional Tests								
Years between age 16 and first								
child								
Joint Differences (p-value)	.071	.389	.066	.953		.557	.980	
Joint Differences from 0 (p-value)	.016	.493	.017	.970		.508	.991	
Years between first and given child	000	004	0.00	0.2.4	004	000	0.40	000
Joint Differences (p-value)	.000	.001	.000	.034	.001	.000	.048	.002
Joint Differences from 0	.000	.001	.000	.039	.002	.000	.059	.003
(p-value)								

Panel C: Externalizing in Early Adolescence Regressed on Maternal Experience and other controls

		OLS		Fixed 1	Effects		With Mediator	rs
	Full	Cousin	Sibling	Cousin FE	Sibling FE	OLS	Cousin FE	Sibling FI
	Sample	Sample	Sample		_			_
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Years between age 16 and first								
child (2-year categories – Baseline								
0-2 Years)								
2-4 Years	$145^{+}$	120	136 <sup>+</sup>	.053		086	.046	
	(.075)	(.130)	(.075)	(.169)		(.071)	(.167)	
4-6 Years	244***	050	244***	.057		158*	.056	
	(.072)	(.125)	(.073)	(.169)		(.069)	(.167)	
6-8 Years	366***	346**	377***	088		243**	093	
	(.077)	(.126)	(.078)	(.165)		(.077)	(.168)	
8-10 Years	421***	224	421***	110		266**	119	
	(.084)	(.150)	(.086)	(.174)		(.083)	(.179)	
10-12 Years	519* <sup>**</sup>	329*	500***	297+		341***	305 <sup>+</sup>	
	(.086)	(.140)	(.089)	(.177)		(.087)	(.181)	
12-14 Years	524***	416 <sup>**</sup>	534***	425*		350***	425*	
	(.097)	(.153)	(.101)	(.184)		(.098)	(.190)	
14-16 Years	519* <sup>**</sup>	386*	515* <sup>**</sup>	410 <sup>*</sup>		329***	431 <sup>*</sup>	
	(.104)	(.177)	(.109)	(.207)		(.104)	(.217)	
16+ Years	499***	384*	506***	304		315**	318	
	(.106)	(.172)	(.112)	(.205)		(.108)	(.214)	
Years between first and given child	(* )	(, ,	,	(*)		(*)	( )	
(2-year categories – Baseline 0-2)								
2-4 Years	021	017	023	.008	.014	030	.014	.012
	(.054)	(.084)	(.054)	(.080)	(.056)	(.053)	(.080)	(.056)
4-6 Years	043	033	044	061	032	038	043	030
	(.062)	(.095)	(.062)	(.094)	(.065)	(.061)	(.095)	(.066)
6-8 Years	096	096	096	193 <sup>+</sup>	094	102	182	090
5 5 <b>1 cm</b> 5	(.070)	(.118)	(.070)	(.114)	(.080)	(.069)	(.114)	(.081)
8+ Years	232**	251*	231**	187	217*	234**	160	220*
o i i caro	(.078)	(.127)	(.079)	(.128)	(.094)	(.077)	(.130)	(.094)
Number of siblings before birth	007	.027	006	040	012	034	065	.036
	(.021)	(.038)	(.021)	(.038)	(.027)	(.022)	(.041)	(.062)

Mediators								
Mother's education at birth						021*	.002	014
						(.009)	(.019)	(.014)
HOME score at age 2/3						152***	091**	027
						(.017)	(.030)	(.021)
Birth weight						006	.001	021
						(.015)	(.027)	(.020)
Prenatal cigarette use per day						.102***	.049	.015
						(.020)	(.046)	(.033)
Prenatal alcohol use per month						.012	.019	017
						(.014)	(.027)	(.020)
Fraction of years between birth and						.236***	.141	.049
age 12 biological father in						(.052)	(.115)	(.127)
household						, ,	,	,
Number of siblings between birth						022	031	.053
and age 13						(.016)	(.032)	(.060)
Adjusted total family income at						025**	024+	004
age 2/3						(800.)	(.014)	(.011)
Fraction of 5 years before birth of						.016	.129	.025
single parent household						(.047)	(.087)	(.081)
Constant	.562***	.146	.540***	$.596^{\scriptscriptstyle +}$	.125*	.582***	.409	.173
	(.132)	(.219)	(.136)	(.316)	(.049)	(.157)	(.355)	(.223)
Observations	5673	1830	5215	1830	5215	5673	1830	5215
Additional Tests								
Years between age 16 and first								
child								
Joint Differences (p-value)	.000	.050	.000	.069		.033	.073	
Joint Differences from 0	.000	.039	.000	.096		.010	.106	
(p-value)								
Years between first and given child								
Joint Differences (p-value)	.004	.114	.006	.107	.031	.003	.132	.028
Joint Differences from 0	.009	.201	.013	.192	.063	.007	.227	.058
(p-value)								
Note Standard errors in parentheses. Age 10 to	13 externalizin	o scores are star	dardized values t	or children with	valid values in a	at least one year		

Note. Standard errors in parentheses. Age 10 to 13 externalizing scores are standardized values for children with valid values in at least one year. p < .10, p < .05, p < .05, p < .01, p < .05, p < .01, p < .05, p <

Control variables include: black, Hispanic, female, firstborn, Mother's AFQT score, mother ever fight, mother ever stole, mother US born, first born, Mom's birth year, Child's birth decade (born 1980s, 1990s, 2000s)

Table S14: Exploring differential effects of maternal age by race, maternal education and maternal IQ Panel A: Math

Life Experience         .031***         .040****         .050***           Parent Experience         .032***         .027***         .036***         .050***           Number of siblings before birth         (.009)         (.007)         (.007)         .012**           Number of siblings before birth         (.024)        080****        077***        079***           Moderation		(1)	(2)	(3)	(4)
Cook	Life Experience	.031***	.040***	.044***	.050***
Number of siblings before birth	•				
Number of siblings before birth	Parent Experience	.032***	.027***	.036***	.050***
Number of siblings before birth	•	(.009)	(.007)	(.007)	(.012)
Moderation         (.024)         (.021)         (.020)         (.020)           Moderation         1.72°	Number of siblings before birth	100***	080***	077***	
Moderation         Interest of the properties of the			(.021)		(.020)
Life Experience X Mom Education is Greater than HS Graduate  -003 (009)  Parenting Experience X Mom Education is Greater than HS Graduate  -003 Graduate (009)  Black -255*** -221** -228*** -228*** -230***  (046) (085) (.038) (.038) (.038) (.038) (.038)  Life Experience X Black -004 (.008)  Parenting Experience X Black -006 -007  Hispanic -147** -1.68* -1.09  Parenting Experience X Hispanic -001  Life Experience X Hispanic -001  Farenting Experience X Hispanic -001  Life Experience X Hispanic -001  Life Experience X Hispanic -001  Experience X Hispanic -001  -001  Life Experience X Hispanic -001  Life Experience X Hispanic -001  -001  Experience X Hispanic -001  -0	Moderation	, ,	,	,	,
Life Experience X Mom Education is Greater than HS Graduate    CO09   Condition   Co09	Mom Education is Greater than HS Graduate	.172+			
Life Experience X Mom Education is Greater than HS Graduate    CO09   Condition   Co09		(.101)			
Parenting Experience X Mom Education is Greater than HS  003     Graduate   (.009)     Black  257***  221**  228***  230***     (.046)   (.085)   (.038)   (.038)     Life Experience X Black  004   (.008)     Parenting Experience X Black  004   (.008)     Parenting Experience X Black  006   (.007)     Hispanic  147**  168*  125**  127**     Life Experience X Hispanic  001   (.009)     Parenting Experience X Hispanic  001   (.009)     Parenting Experience X Hispanic  001   (.009)     Mother AFQT Score   0.013***   0.014***   0.015***   0.014***     Life Experience X Mother AFQT (x10*3)  1345   (.1248)     Parenting Experience X Mother AFQT (x10*3)  1445   (.1188)     Mother US Born  124*  114*  114*   0.082	Life Experience <b>X</b> Mom Education is Greater than HS Graduate				
Graduate       (.009)         Black      257***      221**      228***      230***         Life Experience X Black      004       (.085)       (.038)       (.038)         Parenting Experience X Black       (.008)       (.008)       (.007)         Hispanic      147***      168*      125***      127**         Life Experience X Hispanic       (.049)       (.096)       (.042)       (.042)         Parenting Experience X Hispanic       (.008)       (.008)       (.008)         Mother AFQT Score       .013***       .014***       .015***       .014***         Life Experience X Mother AFQT (x10**)       (.001)       (.001)       (.002)       (.001)         Life Experience X Mother AFQT (x10**)      124*      1345      1445       (.1248)         Parenting Experience X Mother AFQT (x10**)      124*      114*      114*       .082	•	(.009)			
Graduate       (.009)         Black      257***      221**      228***      230***         Life Experience X Black      004       (.085)       (.038)       (.038)         Parenting Experience X Black       (.008)       (.008)       (.007)         Hispanic      147***      168*      125***      127**         Life Experience X Hispanic       (.049)       (.096)       (.042)       (.042)         Parenting Experience X Hispanic       (.008)       (.008)       (.008)         Mother AFQT Score       .013***       .014***       .015***       .014***         Life Experience X Mother AFQT (x10**)       (.001)       (.001)       (.002)       (.001)         Life Experience X Mother AFQT (x10**)      124*      1345      1445       (.1248)         Parenting Experience X Mother AFQT (x10**)      124*      114*      114*       .082	Parenting Experience <b>X</b> Mom Education is Greater than HS	003			
Life Experience X Black Parenting Experience X Hispanic Parenting Experience X Mother AFQT (x10 <sup>-3</sup> ) Parenti	Graduate	(.009)			
Life Experience X Black Parenting Experience X Hispanic Parenting Experience X Mother AFQT (x10 <sup>-3</sup> ) Parenti	Black	257***	221**	228***	230***
Parenting Experience X Black   1.006   1.007   1.147**   1.168*   1.125**   1.127**   1.127**   1.125**   1.127**			(.085)		
Parenting Experience X Black   1,006   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,007   1,008   1,009	Life Experience <b>X</b> Black		004		
Hispanic   1.007)   Hispanic   1.14**   1.16**   1.125**   1.127**   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.14**   1.082   1.14**   1.14**   1.082	•		(.008)		
Hispanic $147^{**}$ $168^{+}$ $125^{**}$ $127^{**}$ Life Experience X Hispanic $001$ $001$ $009$ Parenting Experience X Hispanic $0.02$ $0.009$ Mother AFQT Score $0.013^{***}$ $0.014^{***}$ $0.015^{***}$ $0.014^{***}$ Life Experience X Mother AFQT (x10-3) $0.001$ $0.001$ $0.002$ $0.001$ Parenting Experience X Mother AFQT (x10-3) $0.001$ $0.001$ $0.002$ $0.001$ Mother US Born $0.001$ $0.001$ $0.002$ $0.001$	Parenting Experience X Black		.006		
Code			(.007)		
Life Experience X Hispanic      001 (.009)         Parenting Experience X Hispanic       .012 (.008)         Mother AFQT Score       .013*** 0.014*** 0.015*** 0.015*** 0.014*** (.001)         Life Experience X Mother AFQT (x10 $^{-3}$ )      1345 (.1248)         Parenting Experience X Mother AFQT (x10 $^{-3}$ )      1445 (.1188)         Mother US Born      124*114*114* 0.082	Hispanic	147**	168 <sup>+</sup>	125**	127**
Parenting Experience X Hispanic   (.009)   (.008)   (.008)   (.008)   (.008)   (.001)   (.0		(.049)	(.096)	(.042)	(.042)
Parenting Experience <b>X</b> Hispanic .012 .0088  Mother AFQT Score .013*** .014*** .015*** .014*** .015*** .014*** .0019  Life Experience <b>X</b> Mother AFQT (x10 $^{-3}$ ) .014** .002)  Parenting Experience <b>X</b> Mother AFQT (x10 $^{-3}$ ) .014** .082	Life Experience X Hispanic		001		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			(.009)		
Mother AFQT Score       .013***       .014***       .015***       .014***         (.001)       (.001)       (.002)       (.001)         Life Experience X Mother AFQT (x10 $^{-3}$ )      1345       (.1248)         Parenting Experience X Mother AFQT (x10 $^{-3}$ )      1445       (.1188)         Mother US Born      124*      114*      114*       .082	Parenting Experience X Hispanic		.012		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Mother AFQT Score	.013***	.014***	.015***	.014***
Parenting Experience <b>X</b> Mother AFQT (x10 <sup>-3)</sup> $ \begin{array}{c} (.1248) \\1445 \\ (.1188) \\ \\ \text{Mother US Born} \\ \end{array} \qquad \begin{array}{c} (.1248) \\114^{+} \\114^{+} \\ \end{array} \qquad \begin{array}{c} 0.082 \\ \end{array} $		(.001)	(.001)		
Parenting Experience <b>X</b> Mother AFQT (x10 <sup>-3)</sup> 1445 (.1188) Mother US Born124 <sup>+</sup> 114 <sup>+</sup> 114 <sup>+</sup> .082	Life Experience <b>X</b> Mother AFQT (x10 <sup>-3)</sup>			1345	
Mother US Born $(.1188)$ $124^{+}$ $114^{+}$ $114^{+}$ $.082$	•			(.1248)	
Mother US Born124 <sup>+</sup> 114 <sup>+</sup> 114 <sup>+</sup> .082	Parenting Experience <b>X</b> Mother AFQT (x10 <sup>-3)</sup>			1445	
Mother US Born124 <sup>+</sup> 114 <sup>+</sup> 114 <sup>+</sup> .082				(.1188)	
	Mother US Born	124+	114 <sup>+</sup>		.082
		(.072)	(.066)	(.066)	(.154)

Life Experience X Mother US Born				012
Parenting Experience <b>X</b> Mother US Born				(.014) 020 <sup>+</sup>
		والمراجعة المراجعة ا	ىلىدىدىد. دادىدىدىد	(.011)
Constant	487*** (.137)	560*** (.113)	629*** (.118)	748*** (.168)
Observations	3747	5380	5380	5380

Note. Standard errors in parentheses

Covariates not shown include: firstborn, mother ever fight, mother ever steal, child birth year in decade, mom birth year p < .10, p < .05, p < .05, p < .01, p < .00

Panel B: Reading

	(1)	(2)	(3)	(4)
Life Experience	.037***	.027***	.046***	.038**
	(.009)	(.006)	(.008)	(.015)
Parent Experience	.046***	.032***	.044***	.054***
•	(.010)	(.008)	(.008)	(.013)
Number of siblings before birth	129***	124***	119* <sup>**</sup>	124***
	(.026)	(.020)	(.020)	(.020)
Moderation	(1-1-1)	(1-1-7)	(,	(12 - 7
Mom Education is Greater than HS Graduate	.356***			
	(.103)			
ife Experience <b>X</b> Mom Education is Greater than HS Graduate	020*			
The Emperior of Figure Education is Crown with the Crown with	(.009)			
Parenting Experience <b>X</b> Mom Education is Greater than HS	020*			
Graduate	(.009)			
Black	128*	145	100*	110**
HOLLER	(.050)	(.092)	(.042)	(.042)
ife Experience <b>X</b> Black	(.030)	.004	(.042)	(.042)
The Experience A Black		(.008)		
Domenting Experience V Dlock		.002		
Parenting Experience X Black				
T	050	(.008)	070	064
Iispanic	.059	018	.070	.064
	(.052)	(.110)	(.045)	(.045)
ife Experience X Hispanic		.003		
		(.009)		
arenting Experience <b>X</b> Hispanic		.012		
	0 4 5 444	(.009)	Q 4 Q * * *	
Mother AFQT Score	.012***	.013***	.018***	.013***
	(.001)	(.001)	(.002)	(.001)
ife Experience <b>X</b> Mother AFQT (x10 <sup>-3)</sup>			4451***	
			(.1175)	
arenting Experience <b>X</b> Mother AFQT (x10 <sup>-3)</sup>			2639*	
			(.1247)	
Mother US Born	039	081	082	.103
	(.081)	(.071)	(.071)	(.181)

Life Experience X Mother US Born				011
Parenting Experience X Mother US Born				(.014) 020 <sup>+</sup>
Constant	882***	717***	929***	(.012) 915***
Constant	(.150)	(.123)	(.127)	(.191)
Observations	3744	5376	5376	5376

Note. Standard errors in parentheses

Covariates not shown include: firstborn, mother ever fight, mother ever steal, child birth year in decade, mom birth year p < .10, p < .05, p < .05, p < .01, p < .00

Panel C: Externalizing

uner of East municing	(1)	(2)	(3)	(4)
Life Experience	031***	018**	048***	040**
	(.009)	(.007)	(.008)	(.014)
Parent Experience	015	009	024**	012
	(.010)	(.008)	(.009)	(.015)
Number of siblings before birth	002	009	009	006
	(.027)	(.022)	(.022)	(.022)
Moderation				
Mom Education is Greater than HS Graduate	285**			
	(.107)			
Life Experience X Mom Education is Greater than HS Graduate	.013			
	(.009)			
Parenting Experience <b>X</b> Mom Education is Greater than HS	.008			
Graduate	(.009)			
Black	001	.153	032	018
	(.055)	(.103)	(.046)	(.047)
Life Experience <b>X</b> Black	,	021***	,	,
		(.008)		
Parenting Experience <b>X</b> Black		004		
		(.009)		
Hispanic	046	.229*	$078^{+}$	074
	(.056)	(.109)	(.047)	(.047)
Life Experience X Hispanic	(****)	026**	()	(,
		(.009)		
Parenting Experience X Hispanic		019*		
		(.009)		
Mother AFQT Score	002*	003***	008***	003***
	(.001)	(.001)	(.002)	(.001)
Life Experience <b>X</b> Mother AFQT (x10 <sup>-3)</sup>	(.001)	(.001)	. 4606***	(.001)
Ene Experience A Would At Q1 (A10			(.1317)	
Parenting Experience <b>X</b> Mother AFQT (x10 <sup>-3)</sup>			. 2966*	
arenting Experience A Mother ATQ1 (X10			(.1355)	
Mother US Born	.057	.025	.035	043
	(.082)	(.072)	(.071)	(.196)
Life Experience <b>X</b> Mother US Born	(.004)	(.072)	(.071)	.012
Life Experience A Woulder OB Both				.012

				(.014)
Parenting Experience X Mother US Born				003
				(.014)
Constant	.426**	.348**	.650***	.531**
	(.163)	(.128)	(.136)	(.204)
Observations	3906	5673	5673	5673

Note. Standard errors in parentheses Covariates not shown include: firstborn, mother ever fight, mother ever steal, child birth year in decade, mom birth year  $^+p < .10, ^*p < .05, ^{**}p < .01, ^{***}p < .001$